



Attorney Docket No.: GMV-000001
(221091001)

PATENT

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Nicolau, C.Y. et al.)
Serial No: 09/920,310) Group Art Unit: 1614
Filed: August 01, 2001) Examiner: To Be Assigned
Title: Ammonium Salts of Hemoglobin Allosteric)
Effectors, and Uses Thereof)

CERTIFICATE OF FIRST CLASS MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail, postage prepaid, in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231 on: January 9, 2002.

Kirsten Willett
Kirsten Willett

Commissioner for Patents
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §§ 1.56 and 1.97 (b)(3), submitted herewith on a Form PTO-1449 is a list of publications known to Applicants and their Agent. A copy of each publication is also being submitted herewith. Applicants respectfully request that the Examiner consider the listed documents and indicate that they were considered by making appropriate notations on the attached Form 1449.

This submission does not represent that a search has been made or that no better art exists. Nor does it constitute an admission that each or all of the listed documents are material or constitute "prior art." If the Examiner applies any of the documents as prior art against any claim in the application and Applicants determine that the cited documents do not constitute

"prior art" under United States law, Applicants reserve the right to present to the Office the relevant facts and law regarding the appropriate status of such documents. Applicants further reserve the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents should one or more of the documents be applied against the claims of the present application.

Under 37 C.F.R. § 1.97 (b)(3), this Information Disclosure Statement is being submitted before the mailing date of the first Office Action on the merits; therefore, no fees are believed to be due. However, the Commissioner is hereby authorized to charge any required fee to our Deposit Account, **No. 06-1448**.

Respectfully submitted,

FOLEY, HOAG & ELIOT, LLP

By: *Dana Gordon*
Dana Gordon, PhD, JD
Agent for Applicant
Reg. No. 44,719

Dated: 1/9/02
Customer No.: 25181
Patent Group
Foley, Hoag & Eliot LLP
One Post Office Square
Boston, MA 02109

Voice: (617) 832-1000
Facsimile: (617) 832-7000

IN AN APPLICATION
(Use several sheets if necessary)

Application Number
09/930,310

Filing Date
August 01, 2001

Group Art Unit
1614

U.S. PATENT DOCUMENTS

[illegible]

Form PTO-1449

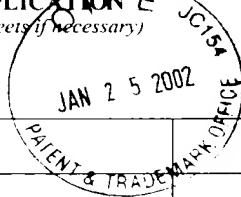
**INFORMATION DISCLOSURE CITATION
IN AN APPLICATION**
(Use several sheets if necessary)

Docket Number (Optional)
GMV-005.01 (22109-501)

Application Number
09/930,310

Applicant
Nicolau et al.

Filing Date
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Group Art Unit
1614

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FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
	AU	WO 95/03068	02/02/95	PCT			X
	AV	WO 93/16688	09/02/93	PCT			X
	AW	WO 92/20369	11/26/92	PCT			X
	AX	WO 92/20368	11/26/92	PCT			X
	AY	EP 0 146 338 A2	06/26/85	European Patent Application			X
	AZ	JP 51-108020	09/25/76	Japan		English Translation of Japanese Patent Abstract	
	BA	JP 55-147295	11/17/80	Japan		English Translation of Japanese Patent abstract	

OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages Etc.)

BB	Hirst et al.; "The Modification of Hemoglobin Affinity For Oxygen and Tumor Radiosensitivity by Antilipidemic Drugs", Radiation Research 112: 164-172, (1987)
BC	Ogata and McConnell.; "Triphosphate Spin-Label Studies of Allosteric Interactions In Hemoglobin", Annals of the New York Academy of Sciences, 222: 56-67, (December 31, 1973)
BD	Ruckpaul et al.; "Interaction of Hemoglobin with Ions Allosteric Effects of the Binding of Anions", Biochimica et Biophysica Acta 236:211-221, (1971)
BE	Benesch and Benesch; "The Effect of Organic Phosphates From the Human Erythrocyte on the Allosteric Prosperities of Hemoglobin", Biochemical and Biophysical Research Communications, 26 (2): 163-167, (1967)
BF	Lalezari et al.; "New Effectors Of Human Hemoglobin: Structure and Function", Biochemistry 29: 1515-1523, (1990)
BG	Abraham et al.; "Design, Synthesis, and Testing of Potential Antisickling Agents. 1. Halogenated Benzyloxy and Phenoxy acids", J. Med. Chem. 25: 1015-1017, (1982)
BH	Teisseire et al.; "Physiological Effects of High -P ₅₀ Erythrocyte Transfusion on Piglets", Journal of Applied Physiology, 58(4): 1810-1817, (April 1985)
BI	Brooksbank and Balazs; "Superoxide Dismutase and Lipoperoxidation in Down's Syndrome Fetal Brain ", The Lancet 1: 881-882, (April 16, 1983)
BJ	Benesch and Benesch; "Intracellular Organic Phosphates as Regulators of Oxygen Release by Haemoglobin", Nature, 221: 618-622, (February 15, 1969)

INFORMATION DISCLOSURE CITATION IN AN APPLICATION

(Use several sheets if necessary.)

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BK

Arnone et al.; "X-ray Diffraction Study of Binding of 2,3-Diphosphoglycerate to Human Deoxyhaemoglobin", Nature 237: 149-150, May 1972)

BL

Abraham et al.; " Physiological and X-ray Studies of Potential Antisickling Agents", Proc. Natl. Acad. Sci. USA, 80:324-328, (January 1983)

BM

Teisseire et al.; " Long-term Physiological Effects of Enhanced O₂ Release by Inositol Hexaphosphate-Loaded Erythrocytes", Proc. Natl. Acad. Sci. USA, 84: 6894-6898, (October 1987)

BN

Lalezari et al.; " LR16, a Compound with Potent Effects on the Oxygen affinity of Hemoglobin, on Blood Cholesterol, and on Low Density Lipoprotein", Proc. Natl. Acad. Sci. USA, 85: 6117-6121, (August 1988).

BO

Bruggemann et al.; " Low Oxygen-Affinity Red Cell Produced In a Large-Volume, Continuous-Flow Electroporation System", Transfusion 35(6): 478-485, (June 1995)

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.